



Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly



Thank you to our contributors

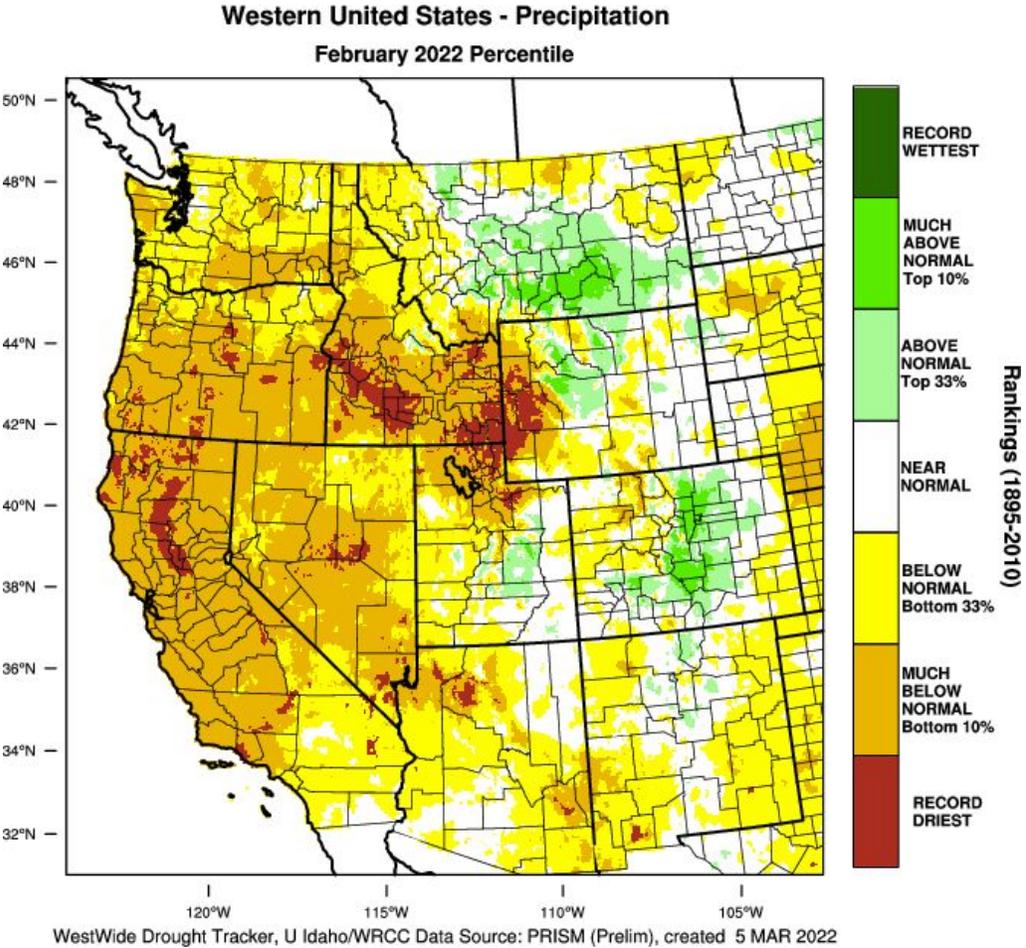




Utah Water Assessment & Conditions Monitoring Webinar

March 8, 2022

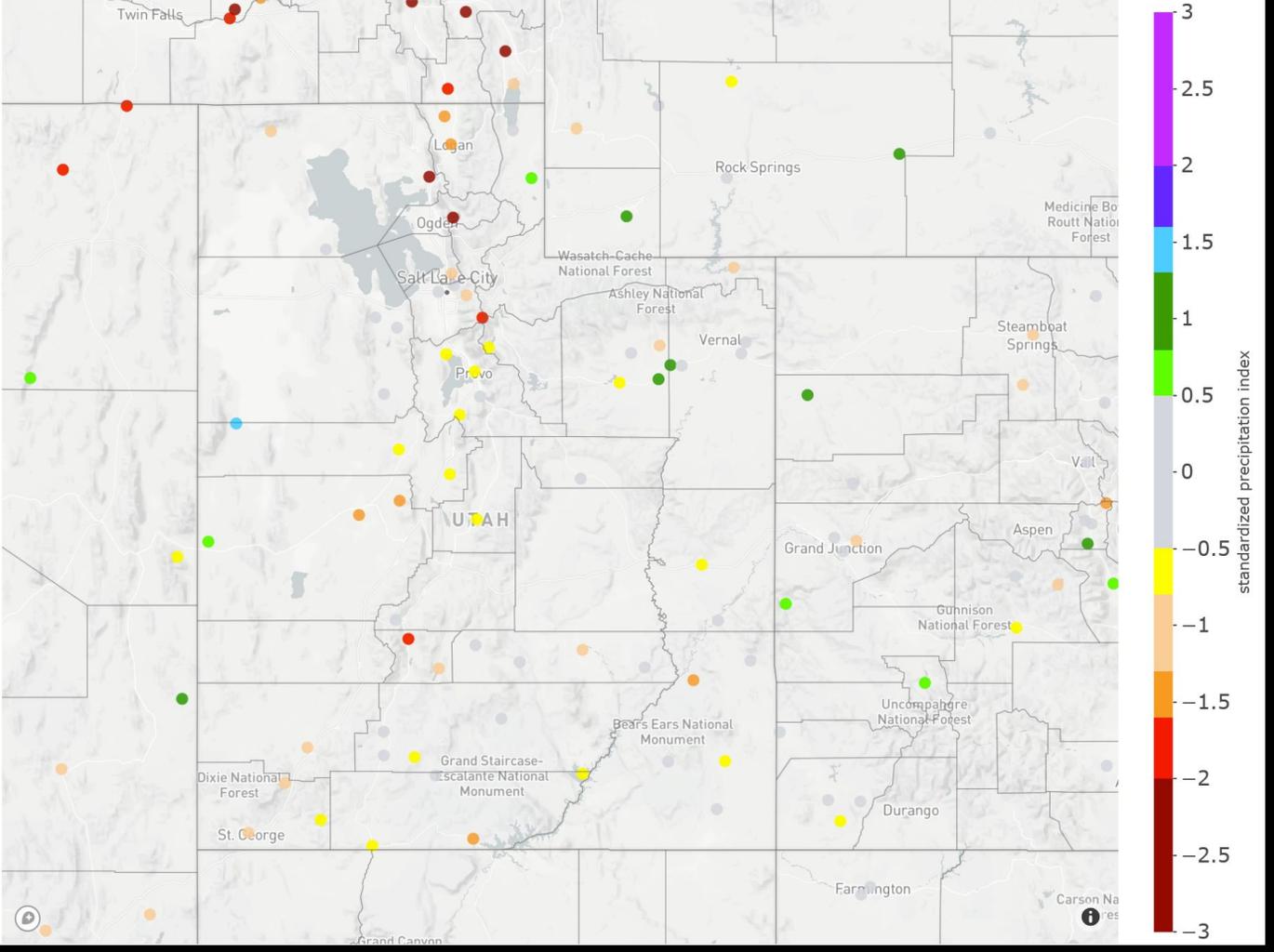
Feb Precipitation



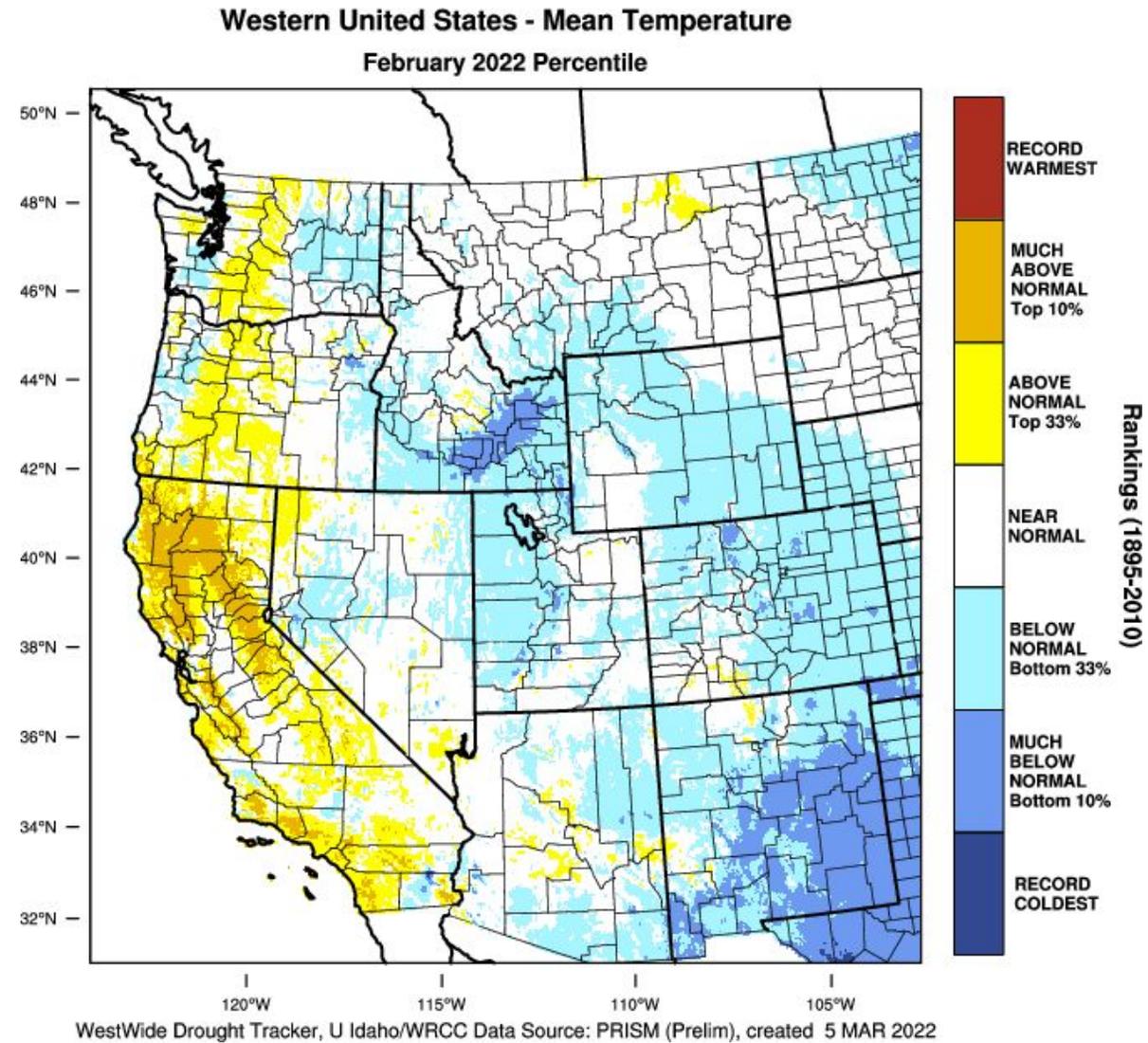
Agency - Utah Climate Center
Presenter - Jon Meyer

30-day SPI

30-day Standardized Precipitation Index: 2022/02/06 - 2022/03/07

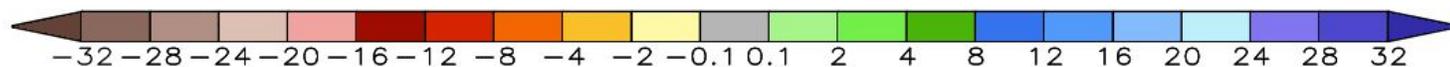
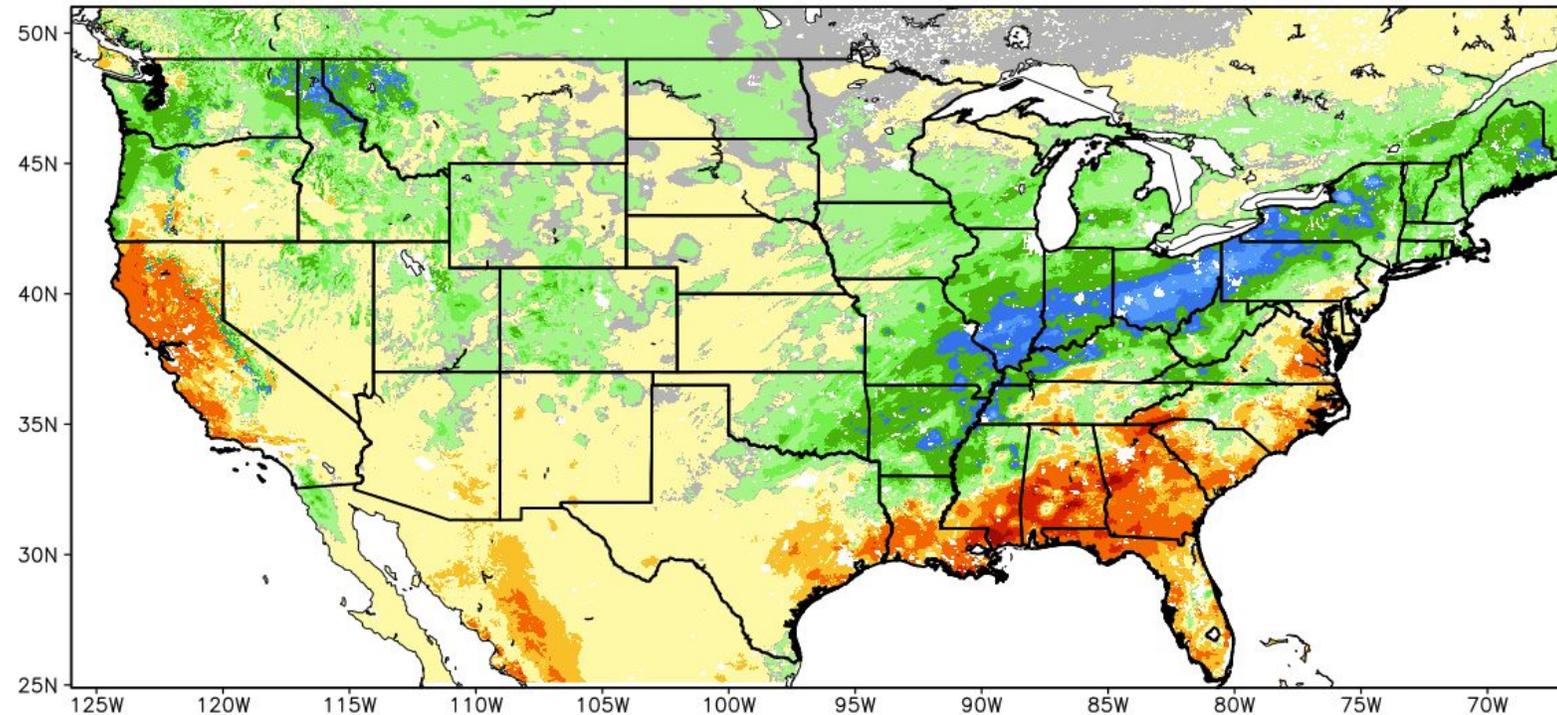


Feb Temps



Modeled Soil Moisture Changes

1-Month Difference in Column Relative Soil Moisture (%) valid 12z 08 Mar 2022



NOTE
Experimental

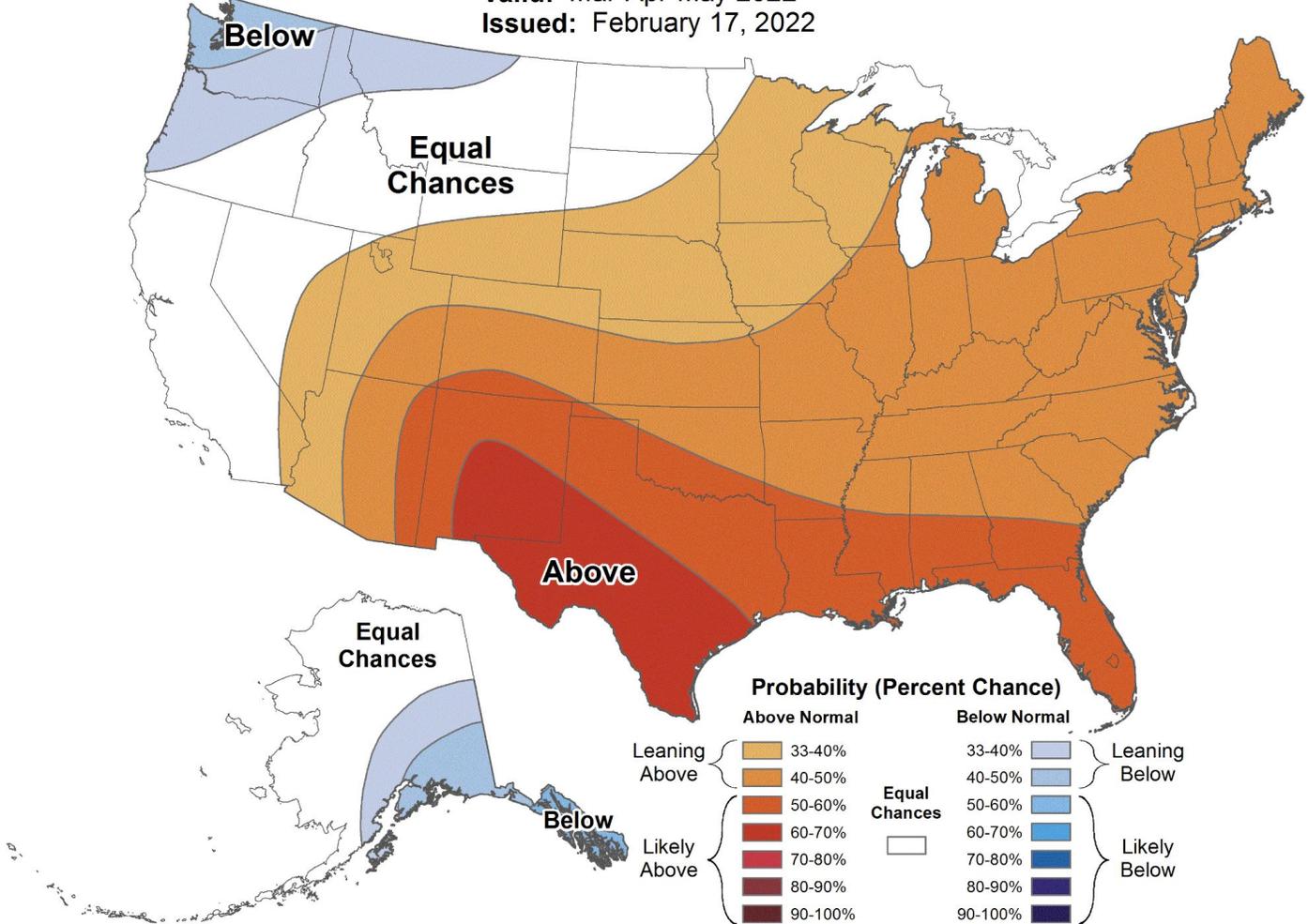
3-month temperature outlook



Seasonal Temperature Outlook



Valid: Mar-Apr-May 2022
 Issued: February 17, 2022



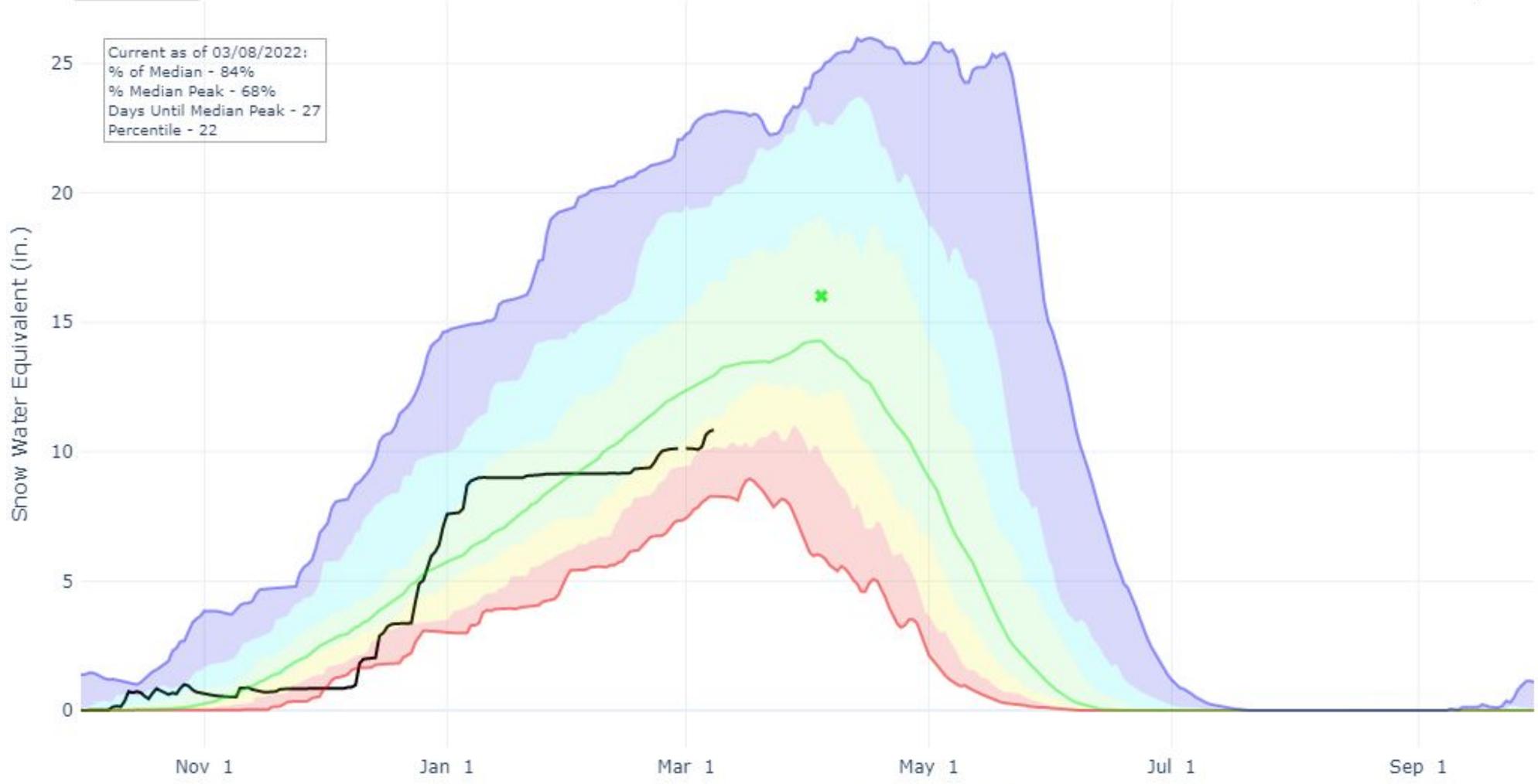
SNOW WATER EQUIVALENT IN STATE OF UTAH

Reset Range

[Link to data: CSV / JSON](#)

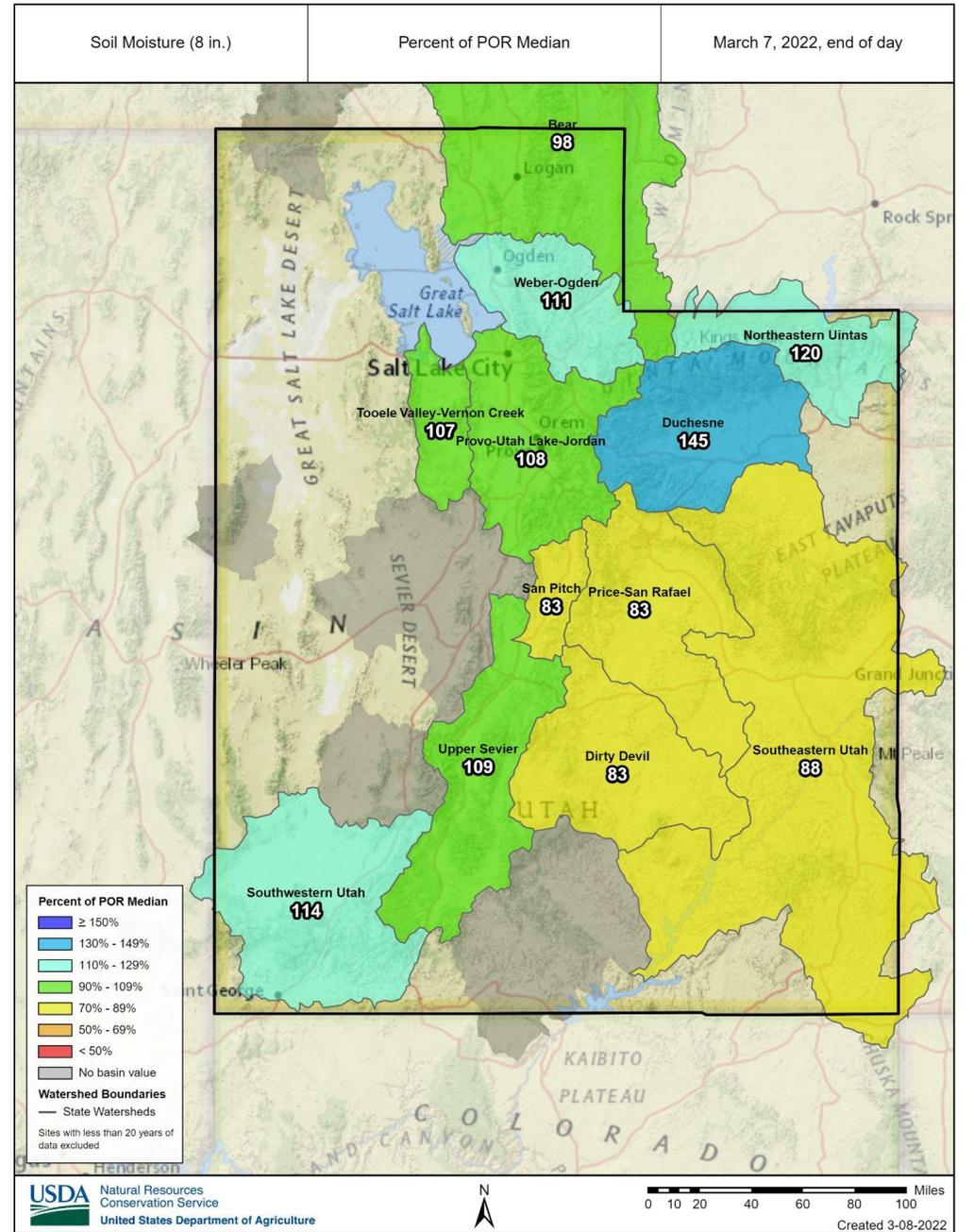
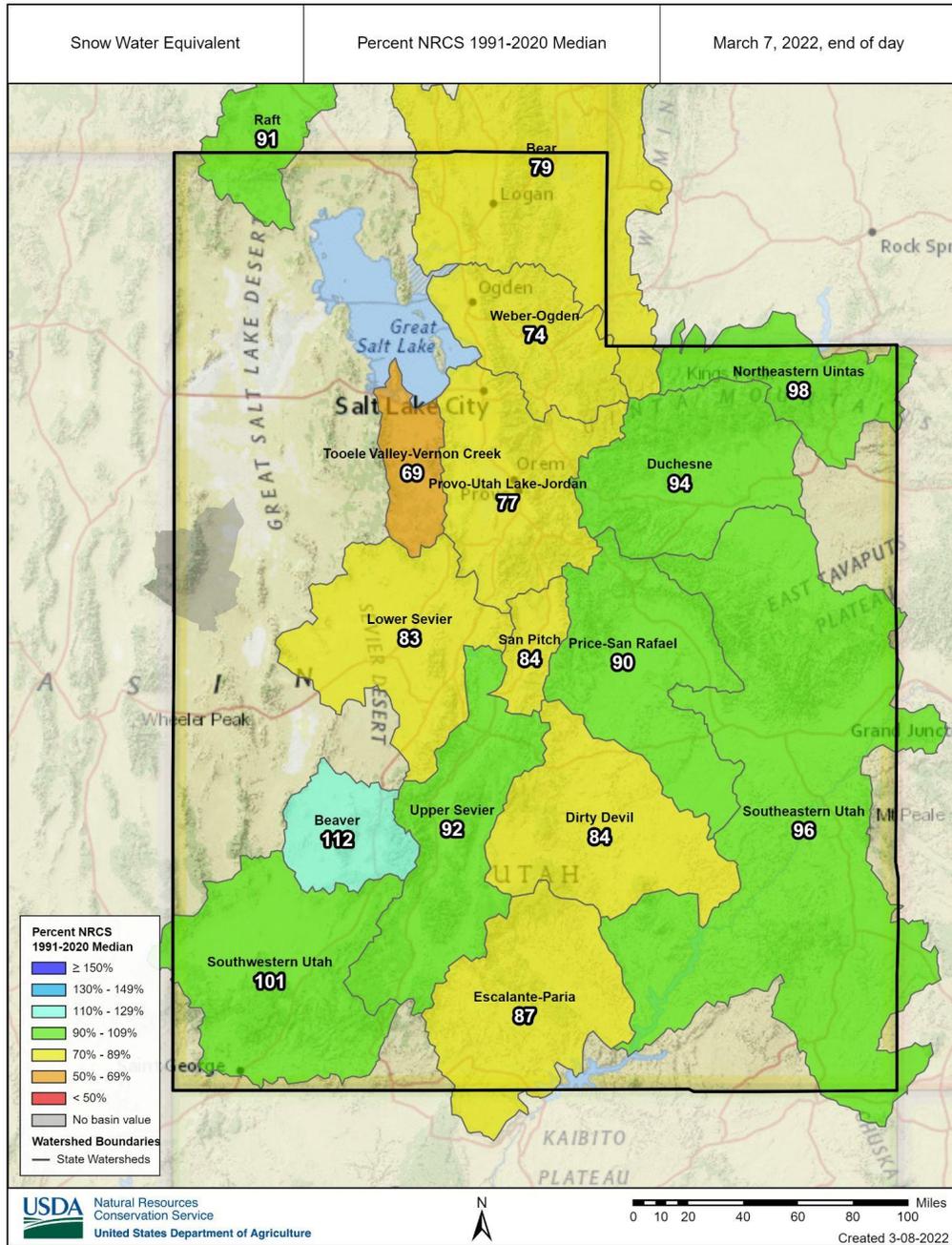
Station List

Current as of 03/08/2022:
% of Median - 84%
% Median Peak - 68%
Days Until Median Peak - 27
Percentile - 22



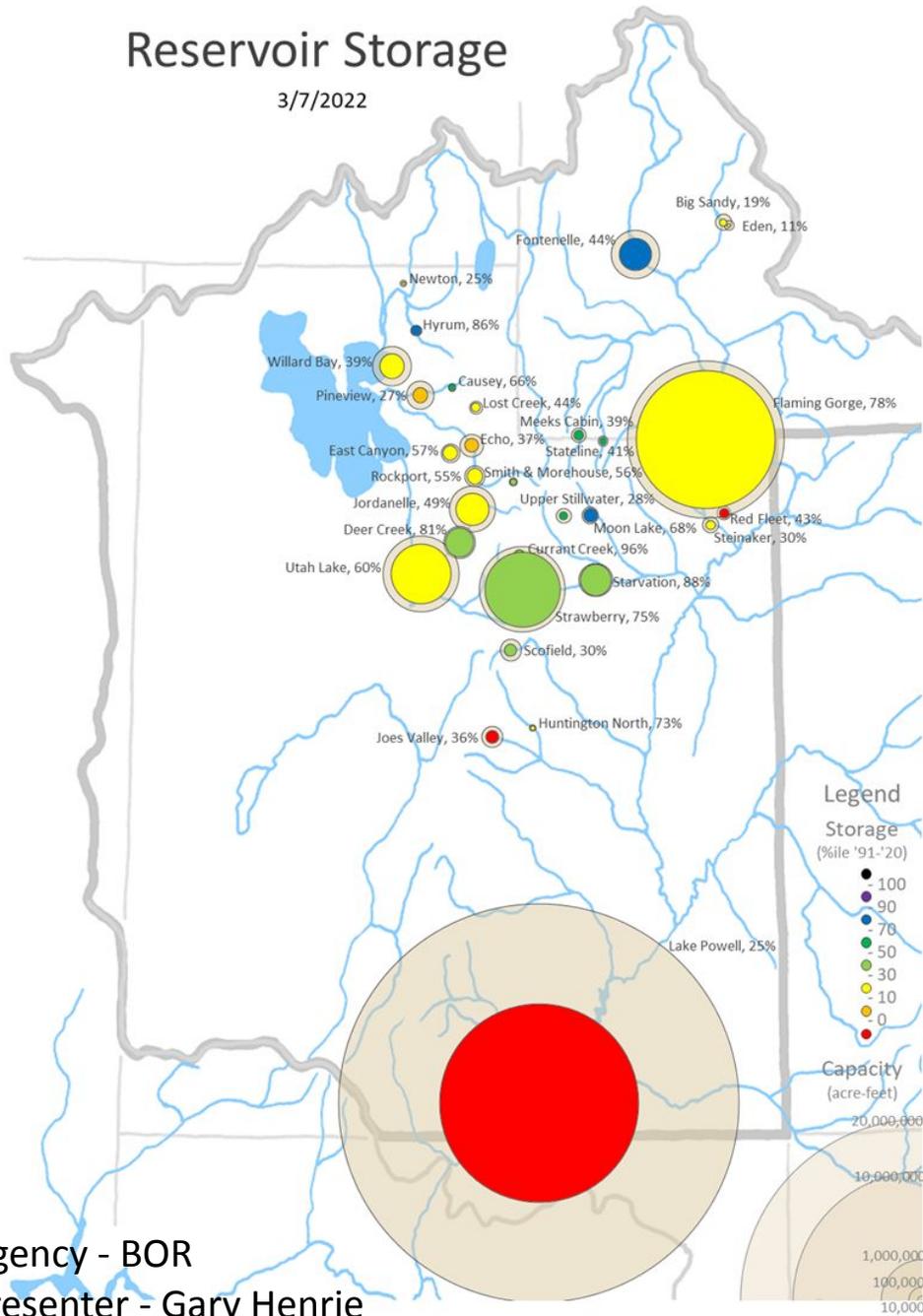
- ✖ Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2022 (114 sites)
- 2021 (114 sites)
- 2020 (114 sites)
- 2019 (114 sites)
- 2018 (113 sites)
- 2017 (114 sites)
- 2016 (114 sites)
- 2015 (114 sites)
- 2014 (114 sites)
- 2013 (114 sites)
- 2012 (114 sites)
- 2011 (114 sites)
- 2010 (105 sites)
- 2009 (99 sites)
- 2008 (99 sites)
- 2007 (96 sites)
- 2006 (96 sites)
- 2005 (96 sites)
- 2004 (92 sites)
- 2003 (92 sites)





Reservoir Storage

3/7/2022

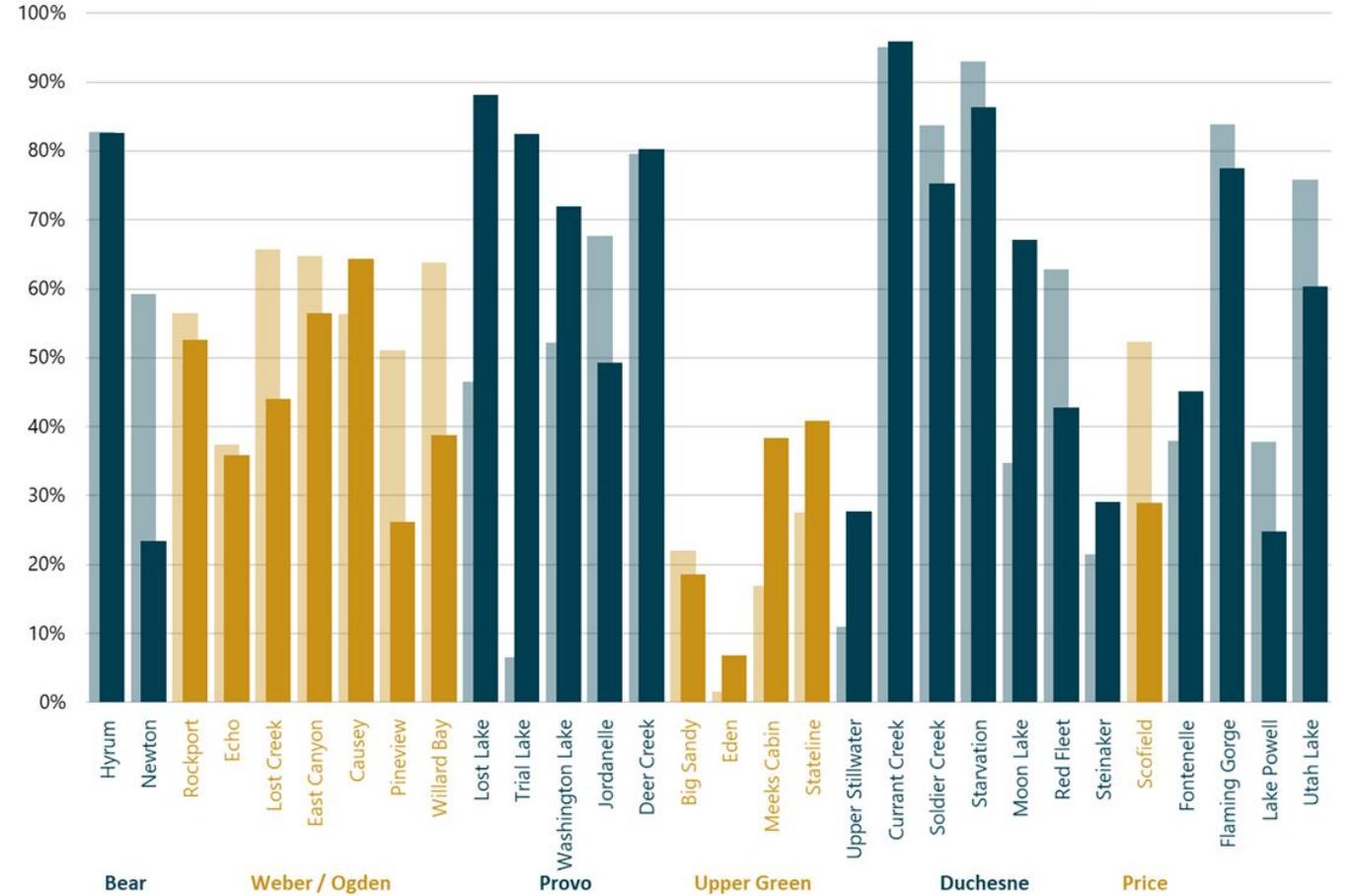


Agency - BOR
Presenter - Gary Henrie

Reservoir Storage

in Percent Full

01-Mar-2021
01-Mar-2022



Overall storage:
(Excluding Fontenelle, Flaming Gorge, and Lake Powell)
Current: 61%
Last year: 72%

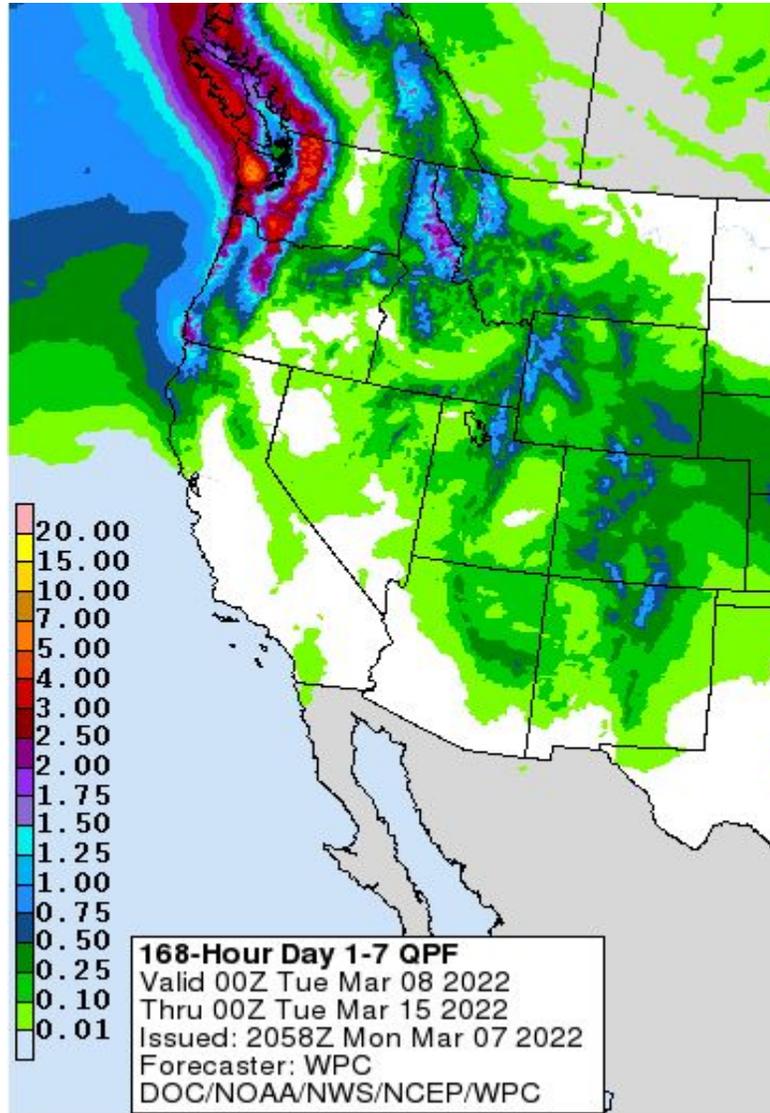
Reservoirs storage:

Pineview: -25%
Willard Bay: -25%
Jordanelle: -18%
Strawberry: -8%
Starvation: -7%
Scofield: -23%
Lake Powell: -13%
Utah Lake: -16%

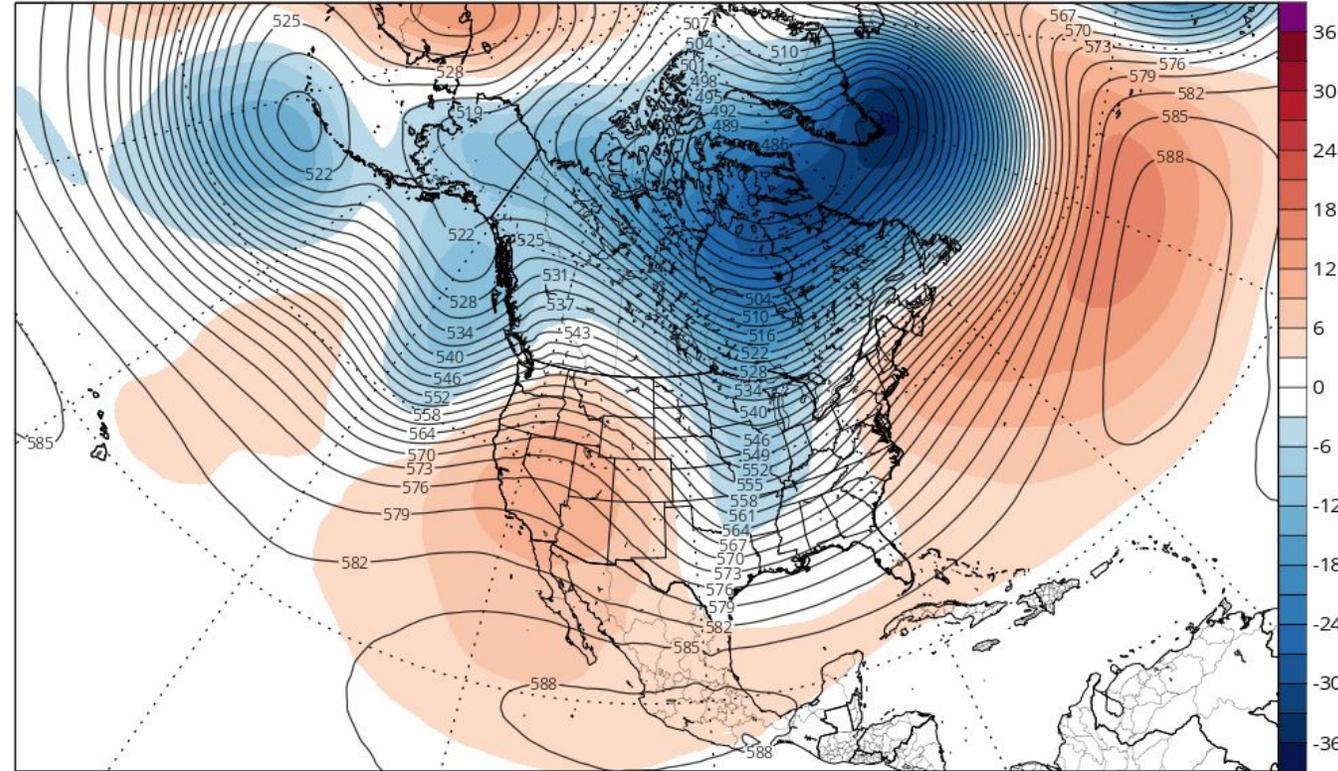


BUREAU OF RECLAMATION

Weather Forecast Office Utah Day 1-7 Outlook



GEFS 500mb Geopotential Height & Anomaly (dam) (based on CFSR 1981-2010 Climatology)
 Init: 18z Mar 07 2022 Forecast Hour: [174] valid at 00z Tue, Mar 15 2022 TROPICALTIDBITS.COM



- Beneficial storm Tuesday in to Thursday, but normal for this time of year.
- High pressure is forecast to dominate thereafter with minimal additional precipitation.
- Temperatures remain well below average through late week, then moderate to near normal by early next week.

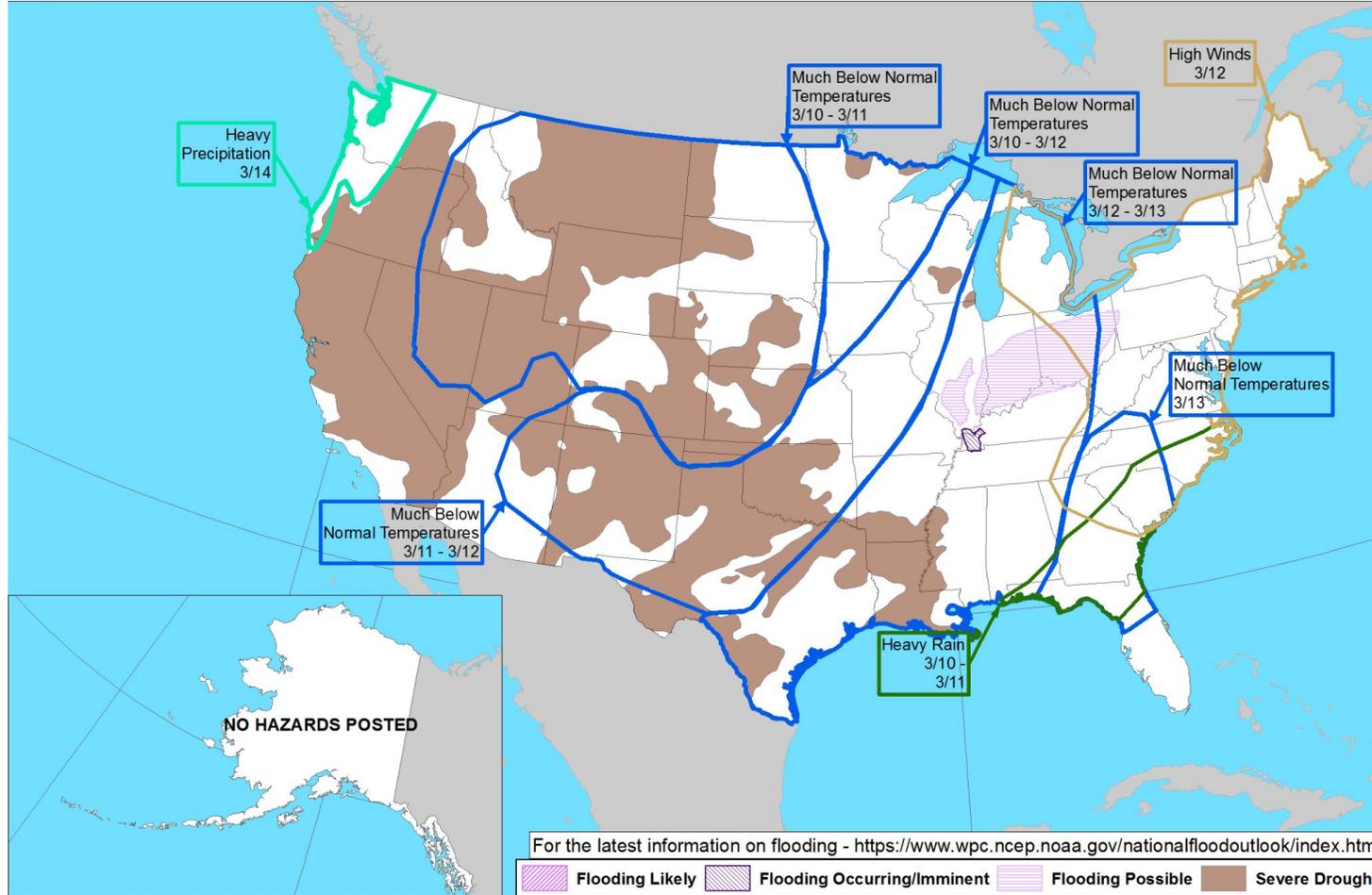
Agency - National Weather Service Weather Forecast Office

Presenter - Alex Desmet

Weather Prediction Center U.S. Day 3-7 Hazards Outlook



Day 3-7 U.S. Hazards Outlook
Valid: 03/10/2022-03/14/2022



Weather Prediction Center

Made: 03/07/2022 3PM EST

Follow us:

www.wpc.ncep.noaa.gov

Agency - National Weather Service Weather Forecast Office

Presenter - Alex Desmet

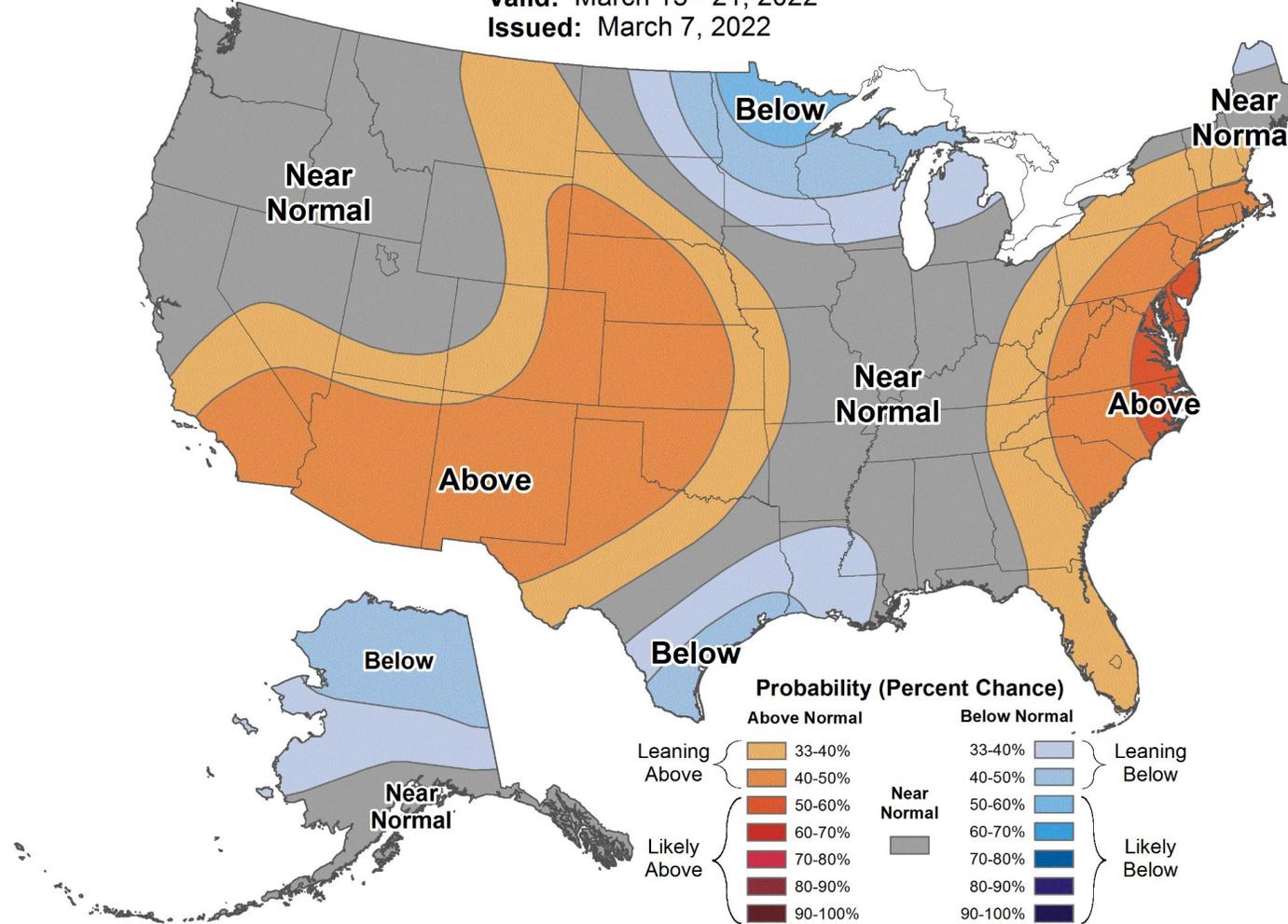
Climate Prediction Center 8 to 14 Day Outlooks - Temperature



8-14 Day Temperature Outlook



Valid: March 15 - 21, 2022
Issued: March 7, 2022



Agency - National Weather Service Weather Forecast Office

Presenter - Alex Desmet

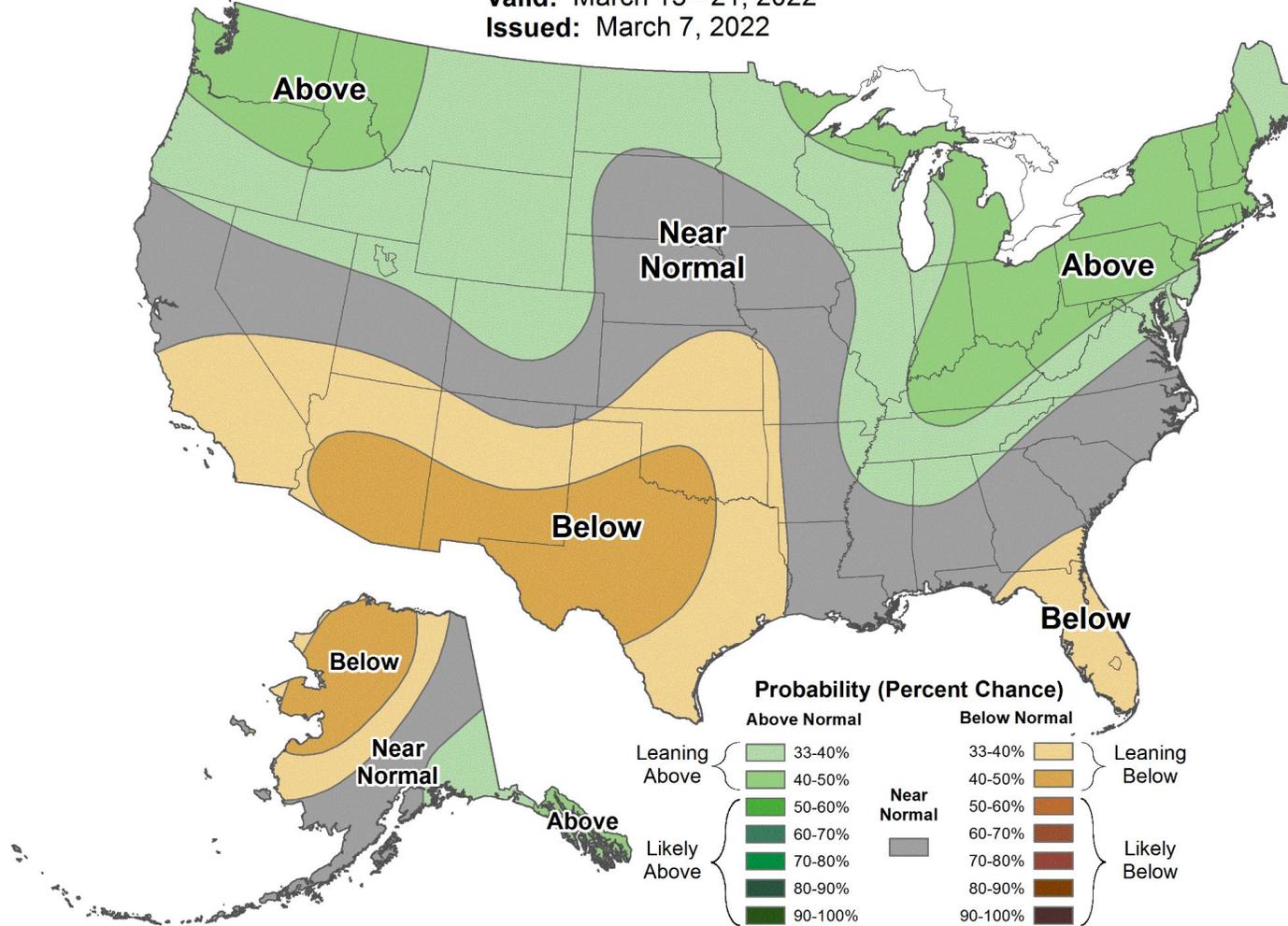
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



8-14 Day Precipitation Outlook



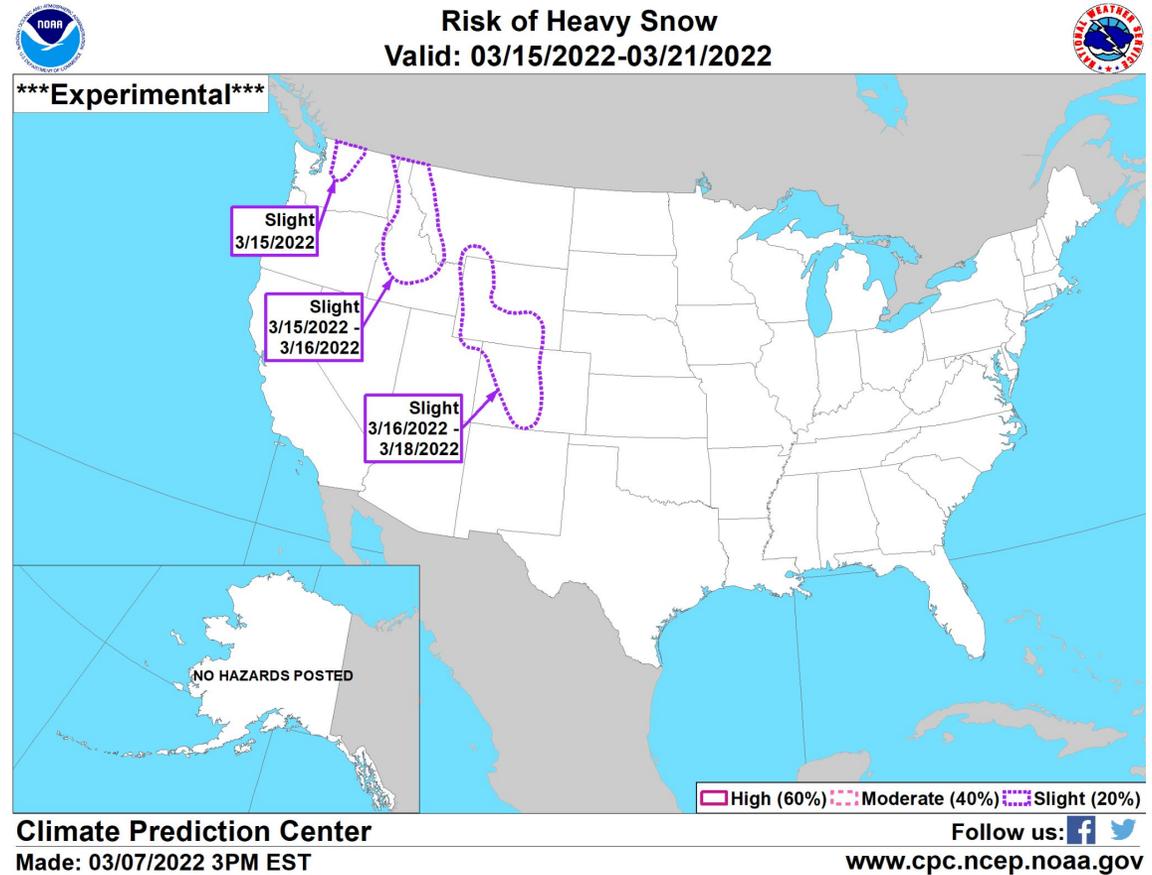
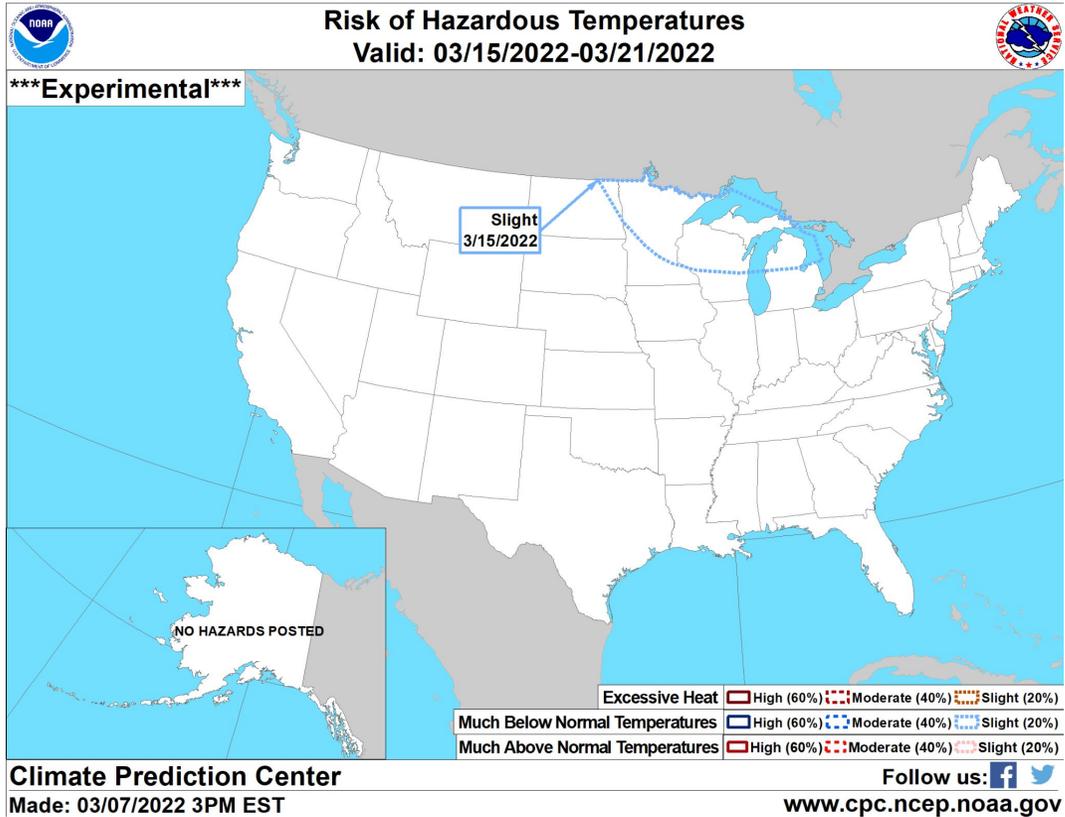
Valid: March 15 - 21, 2022
Issued: March 7, 2022



Agency - National Weather Service Weather Forecast Office

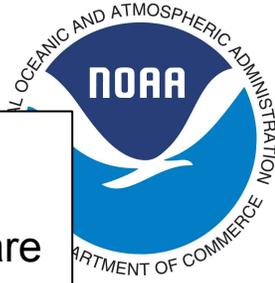
Presenter - Alex Desmet

Climate Prediction Center U.S. Week-2 Hazards Outlook



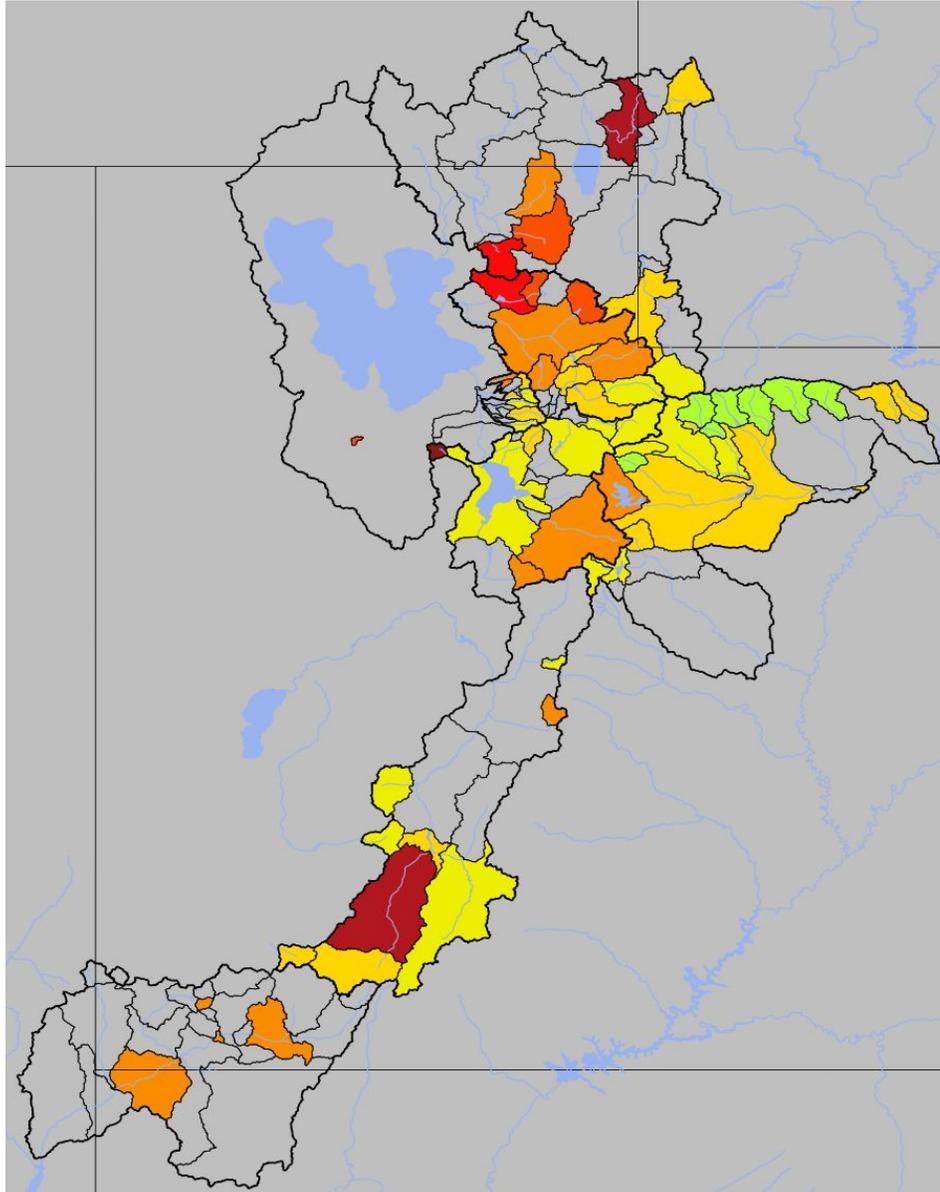
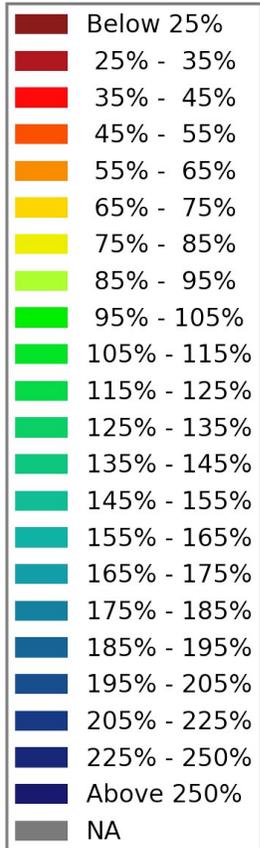
- Temperatures largely near normal, no extremes.
- No anomalous snow forecast, but still somewhat active in the north.

Utah Water Supply Forecasts - Overview



- March 1 Forecast for April-July Volume
- April-July Forecast Streamflow Volumes are in percent of 1991-2020 average
- 15-25% declines in forecasts from Feb. 1

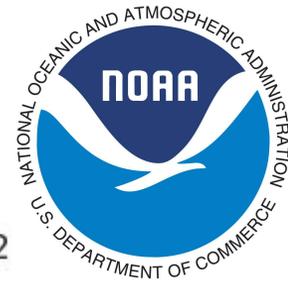
Percent of Average



Median value of the...
 ...individual forecasts (in % of average)
 ...by Forecast Group.

Weber	65%
Bear	60%
Six Creeks	75%
Provo / Utah Lake	70%
Sevier	75%
Duchesne	75%
Virgin	60%

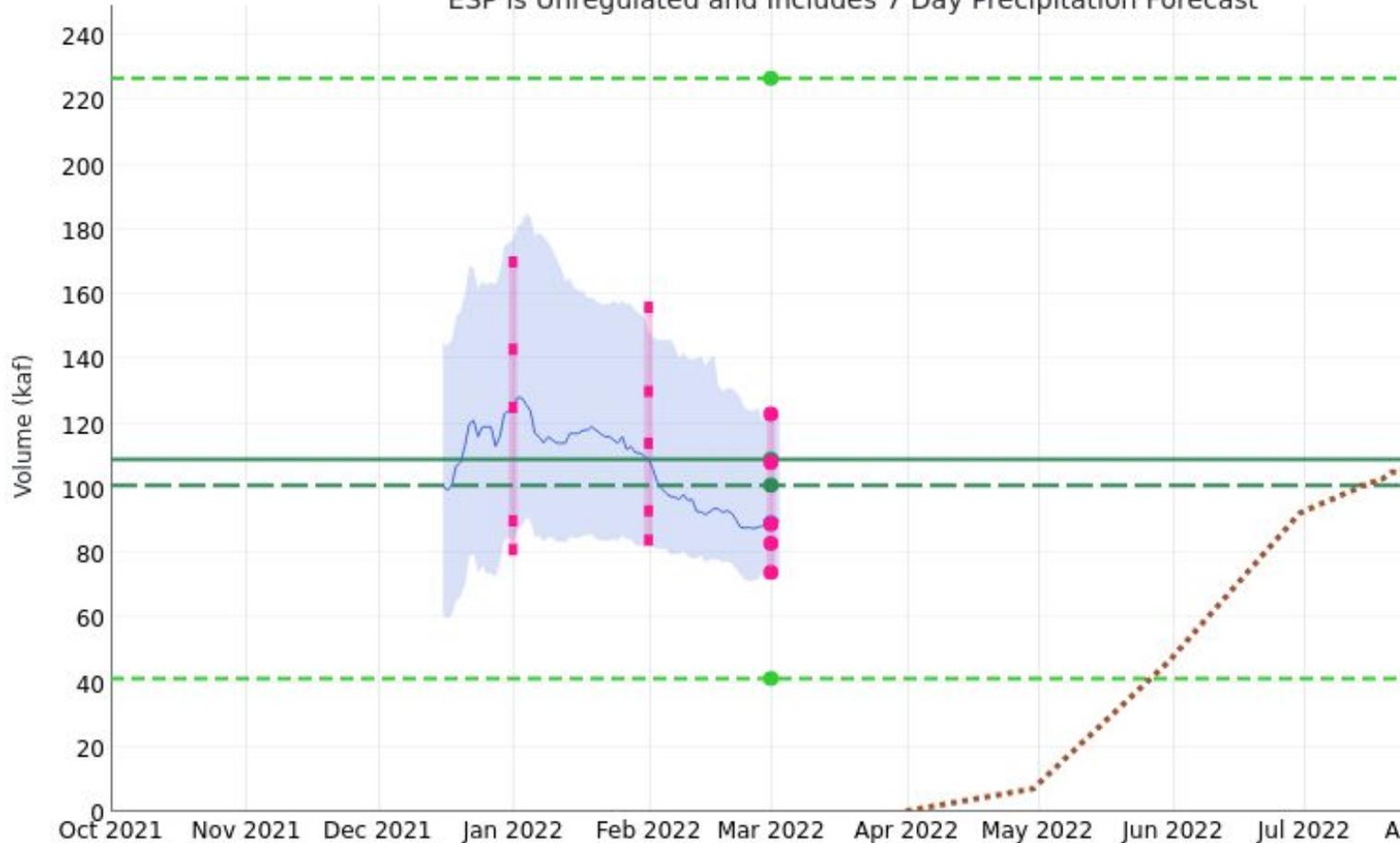
Utah Water Supply Forecasts - Bear



Bear - Utah-Wyoming State Line, Nr (BERU1)

Period: Apr-Jul, Official 50% Forecast (2022-03-01): **89 kaf (82% Average, 88% Median)**

ESP is Unregulated and Includes 7 Day Precipitation Forecast



2022/03/01:

Max 2011: 226.82

Min 1977: 41.21

Average: 109

Median: 101

ESP: 89.3

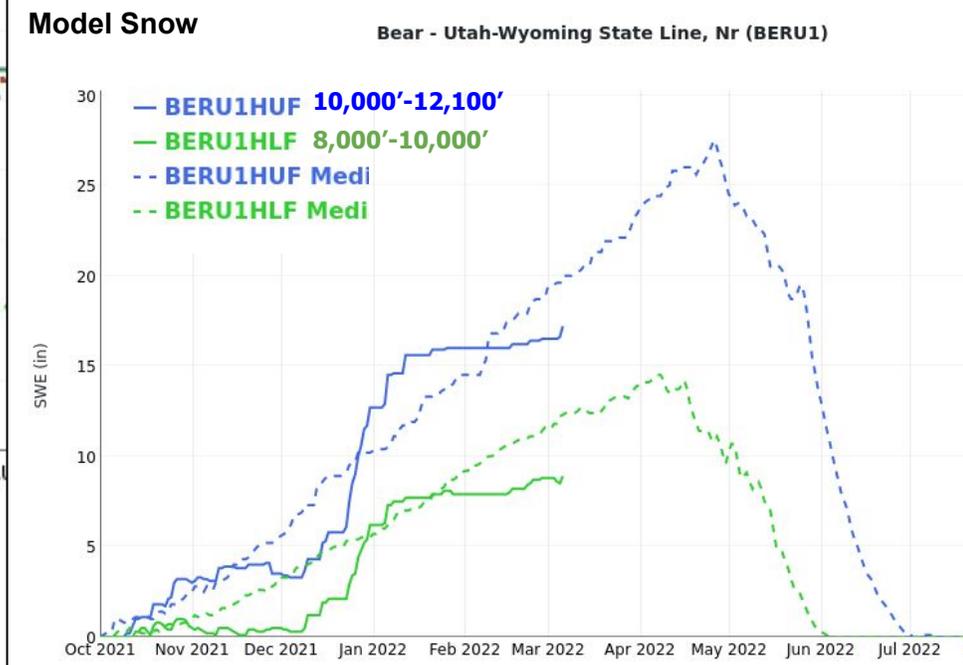
Official 10: 123

Official 30: 108

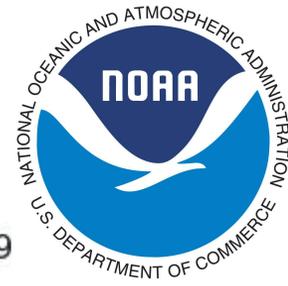
Official 50: 89

Official 70: 83

Official 90: 74



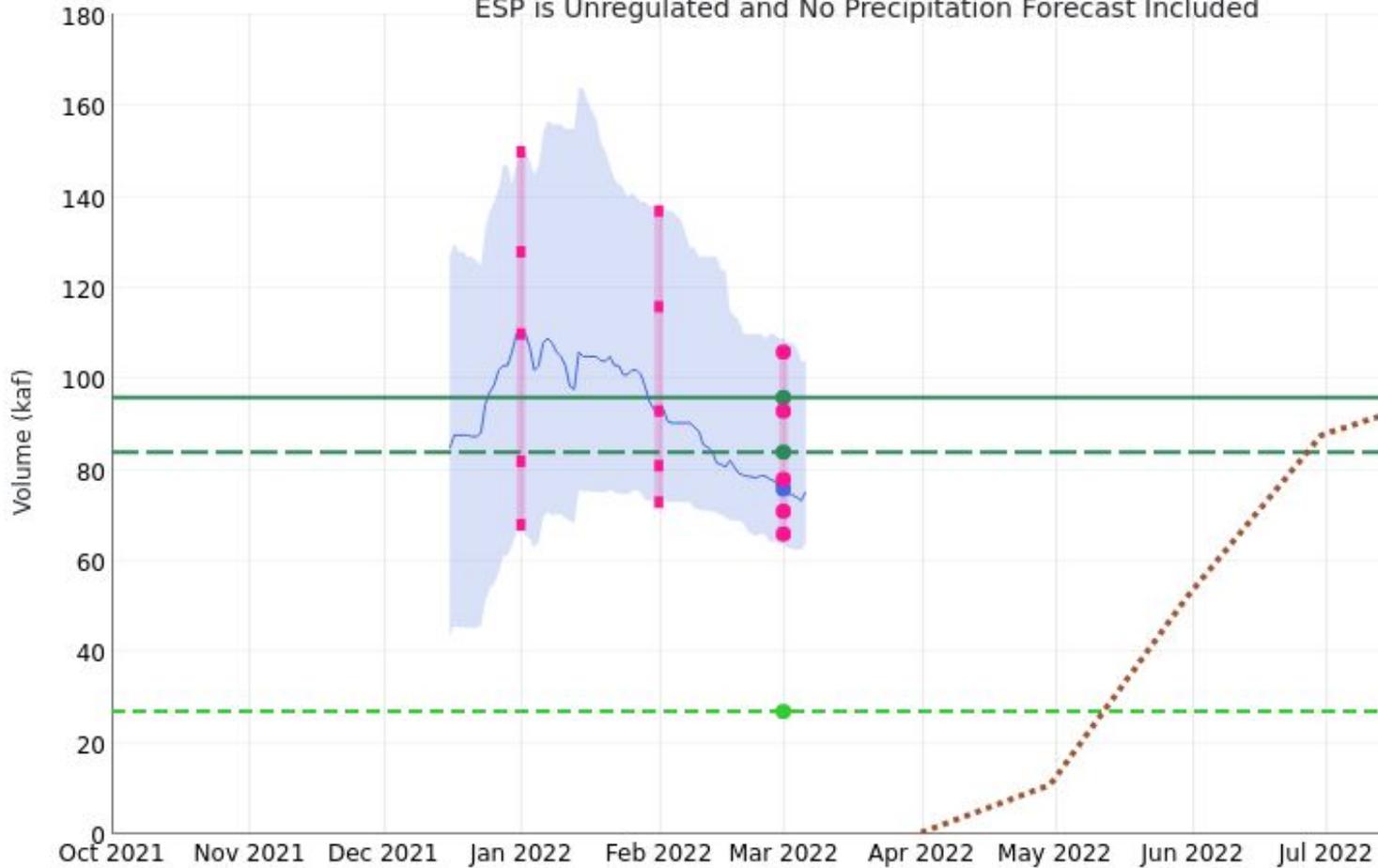
Utah Water Supply Forecasts - Utah Lake Basin



Provo - Woodland, Nr (WOOU1)

Period: Apr-Jul, Official 50% Forecast (2022-03-01): 78 kaf (81% Average, 93% Median)

ESP is Unregulated and No Precipitation Forecast Included



2022/03/01:

Min 1977: 26.99

Average: 96

Median: 84

ESP: 75.9

Official 10: 106

Official 30: 93

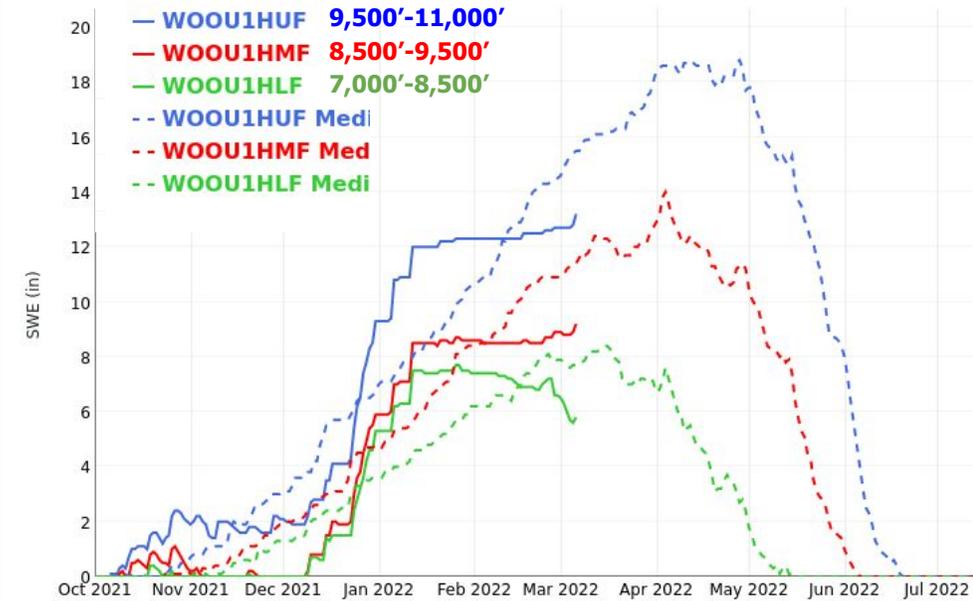
Official 50: 78

Official 70: 71

Official 90: 66

Model Snow

Provo - Woodland, Nr (WOOU1)



Utah Water Supply Forecasts - Duchesne



Rock Ck - Upper Stillwater Reservoir (USTU1)

Period: Apr-Jul, Official 50% Forecast (2022-03-01): **65 kaf (90% Average, 102% Median)**

ESP is Unregulated and No Precipitation Forecast Included



2022/03/01:

Min 1977: 29.9

Average: 72

Median: 64

ESP: 63.7

Official 10: 90

Official 30: 72

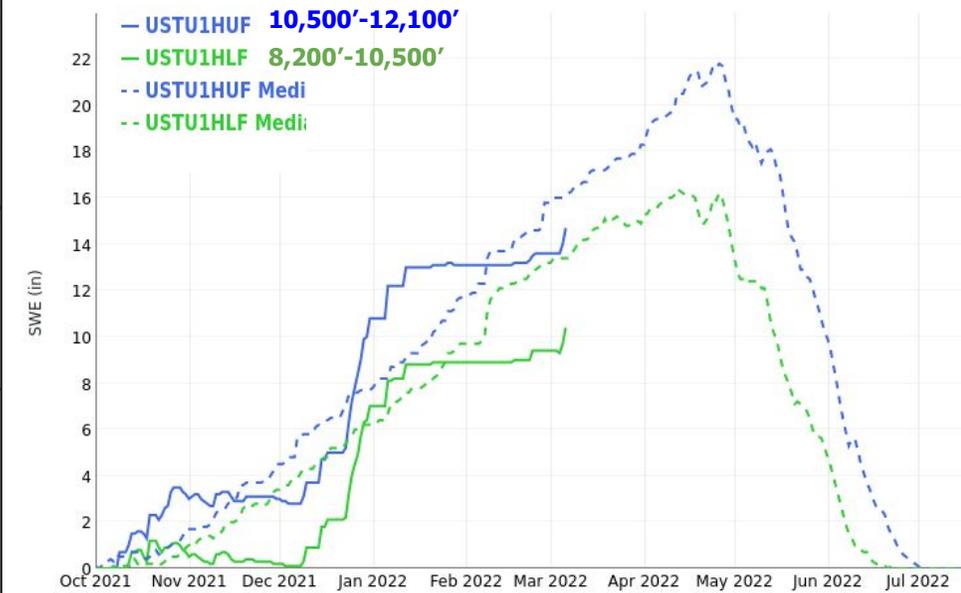
Official 50: 65

Official 70: 55

Official 90: 48

Model Snow

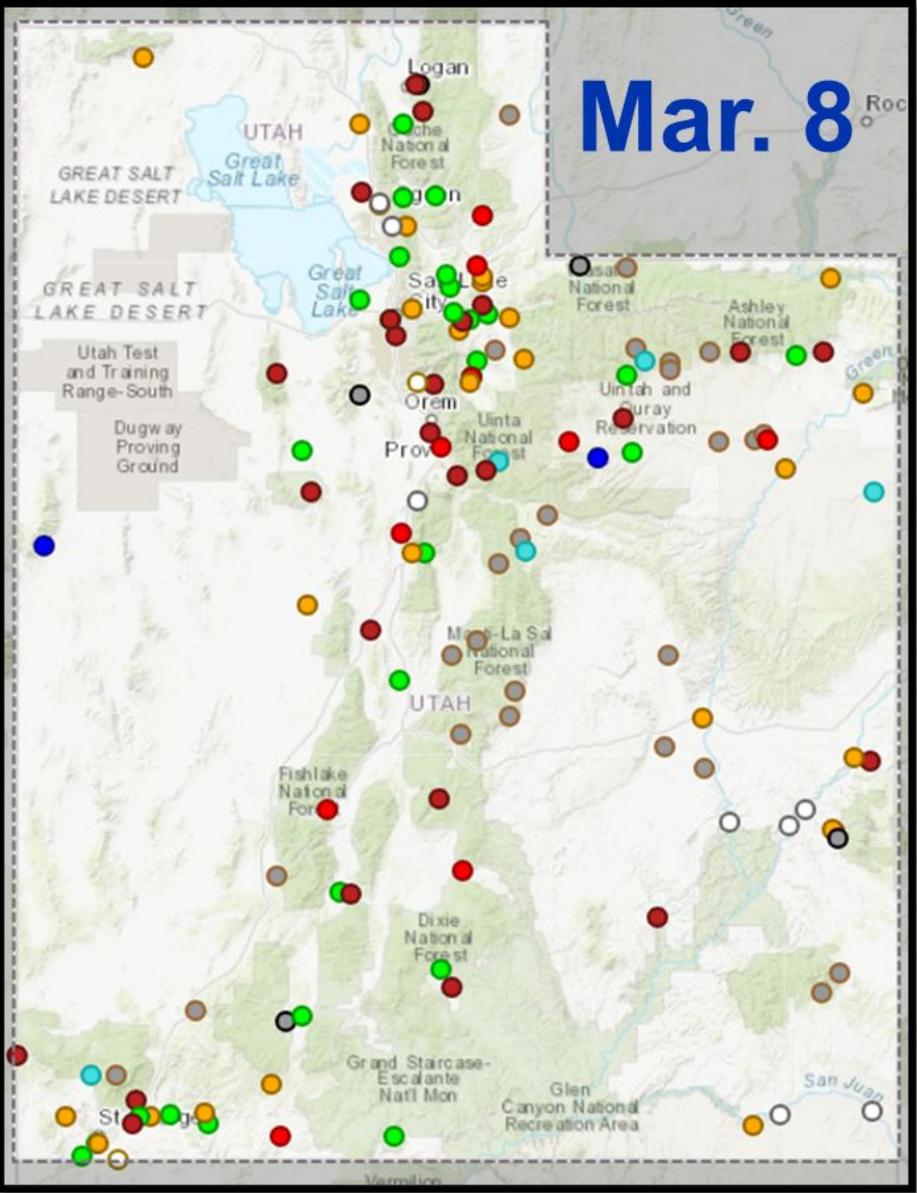
Rock Ck - Upper Stillwater Reservoir (USTU1)



Current Streamflow Conditions

March 8

Feb. 22



Day-of-Year Status	# Gages	% Gages
All-time high for this day-of-year	0	0.0%
Much above normal for this day-of-year	2	1.5%
Above normal for this day-of-year	5	3.6%
Normal for this day-of-year	28	20.4% █
Below normal for this day-of-year	25	18.2% █
Much below normal for this day-of-year	25	18.2% █
All-time low for this day-of-year	11	8.0% █
Not ranked - insufficient record	11	8.0% █
Not ranked - no measurement	23	16.8% █
Not ranked - stream not flowing	1	0.7%
Not ranked - no recent measurement	6	4.4% █

# Gages	% Gages
0	0.0%
1	0.7%
4	2.9%
24	17.5% █
25	18.2% █
25	18.2% █
11	8.0% █
10	7.3% █
31	22.6% █
2	1.5%
4	2.9%

Streamflow: Status

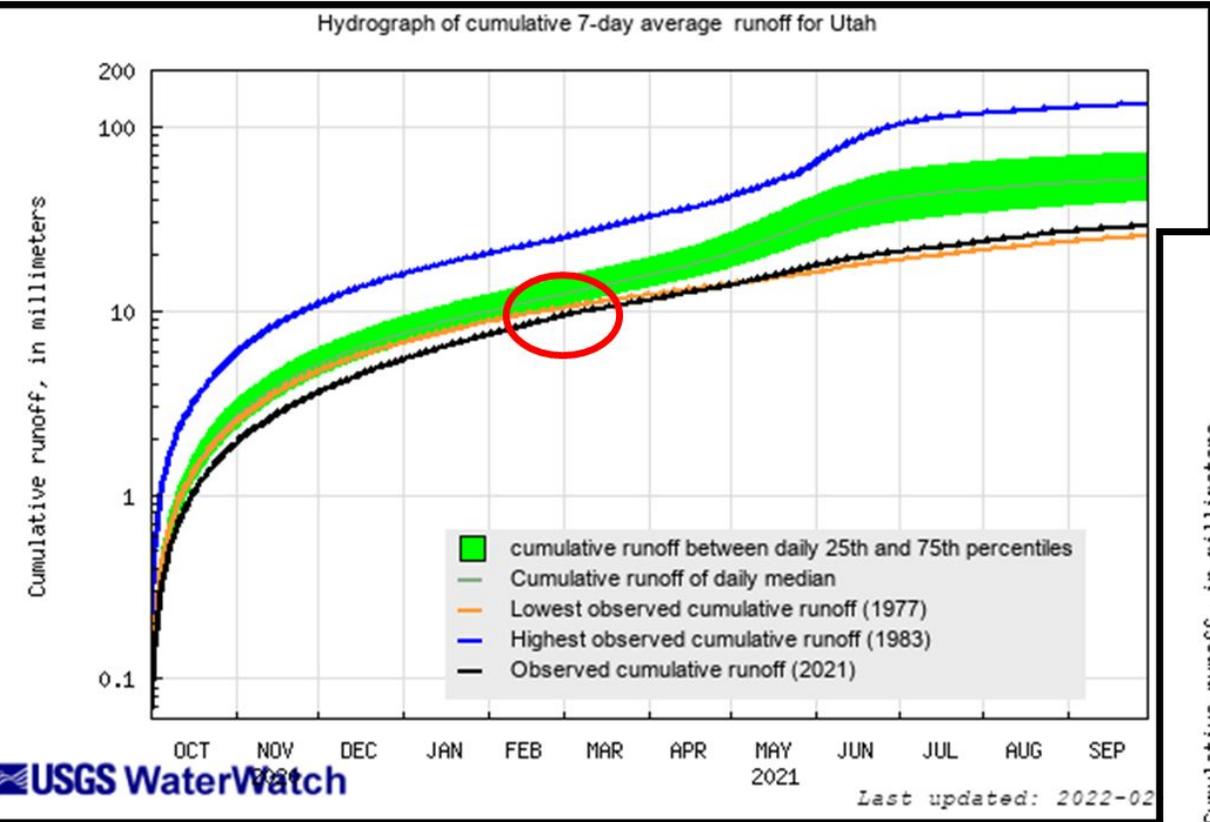
- Above flood stage
- All-time high for this day (100th percentile (maximum))
- Much above normal (>90th percentile)
- Above normal (76th - 90th percentile)
- Normal (25th - 75th percentile)
- Below normal (10th - 24th percentile)
- Much below normal (<10th percentile)
- All-time low for this day (0th percentile (minimum))
- Not flowing
- Not ranked
- Measurement flag
- Recent measurement unavailable

Agency - USGS Utah WSC
 Presenter - Ryan Rowland

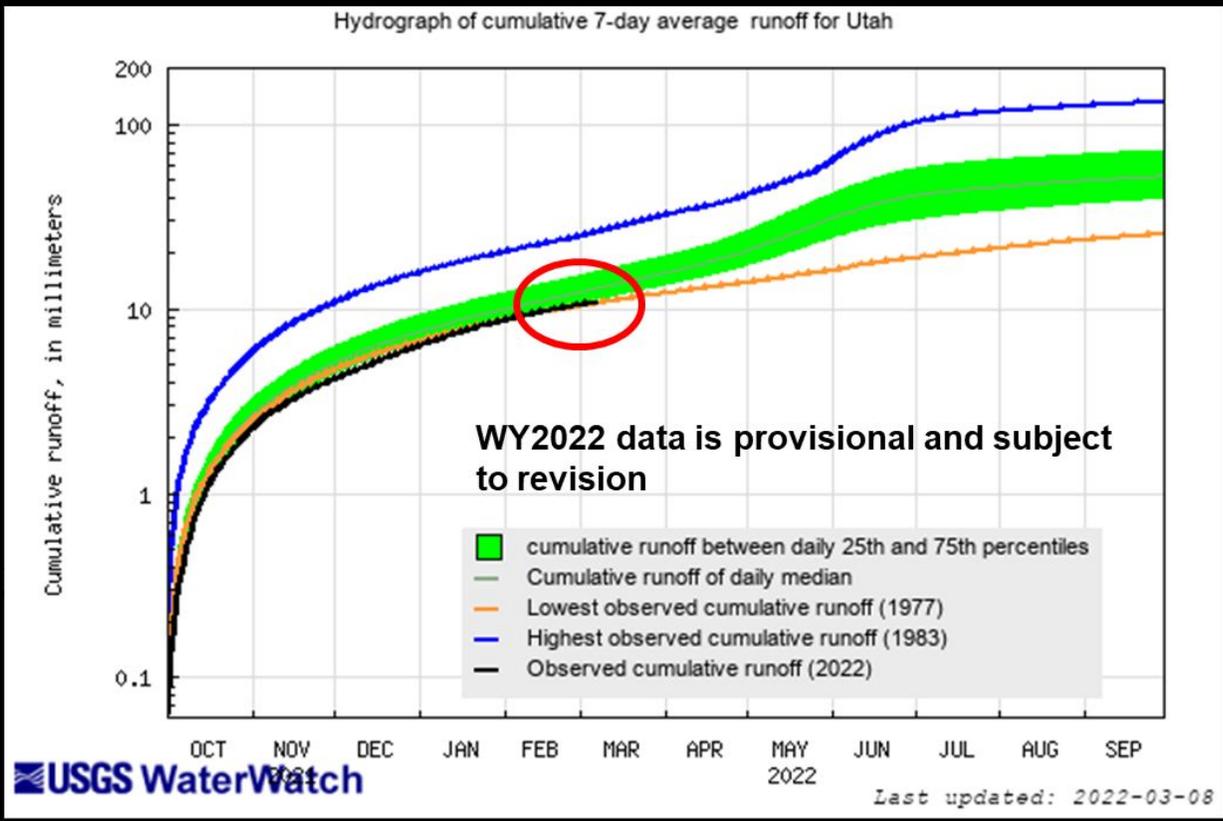


Area Based Cumulative Runoff

Water Year 2021



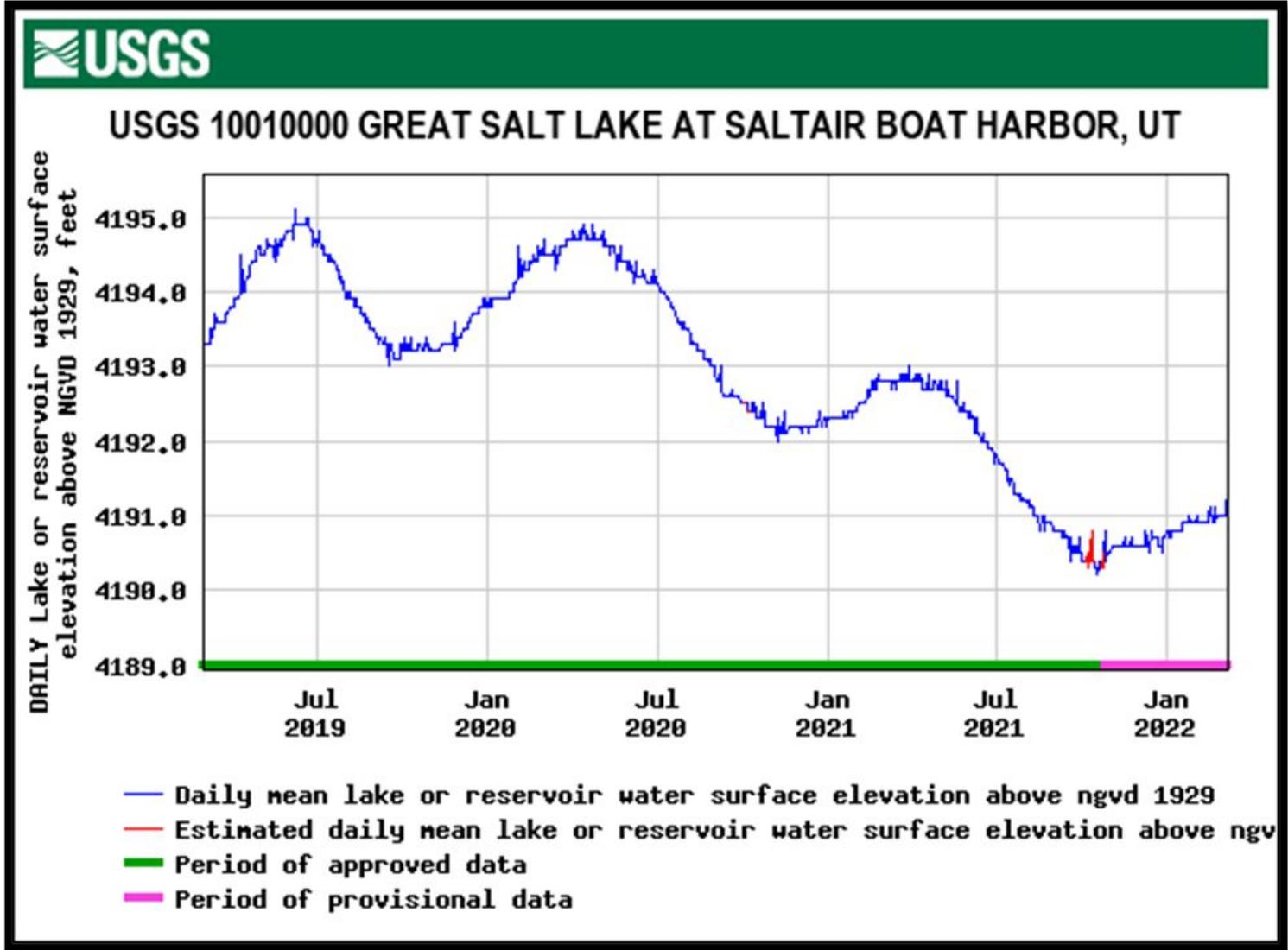
Water Year 2022



Agency - USGS Utah WSC
Presenter - Ryan Rowland



Great Salt Lake Water Surface Elevation

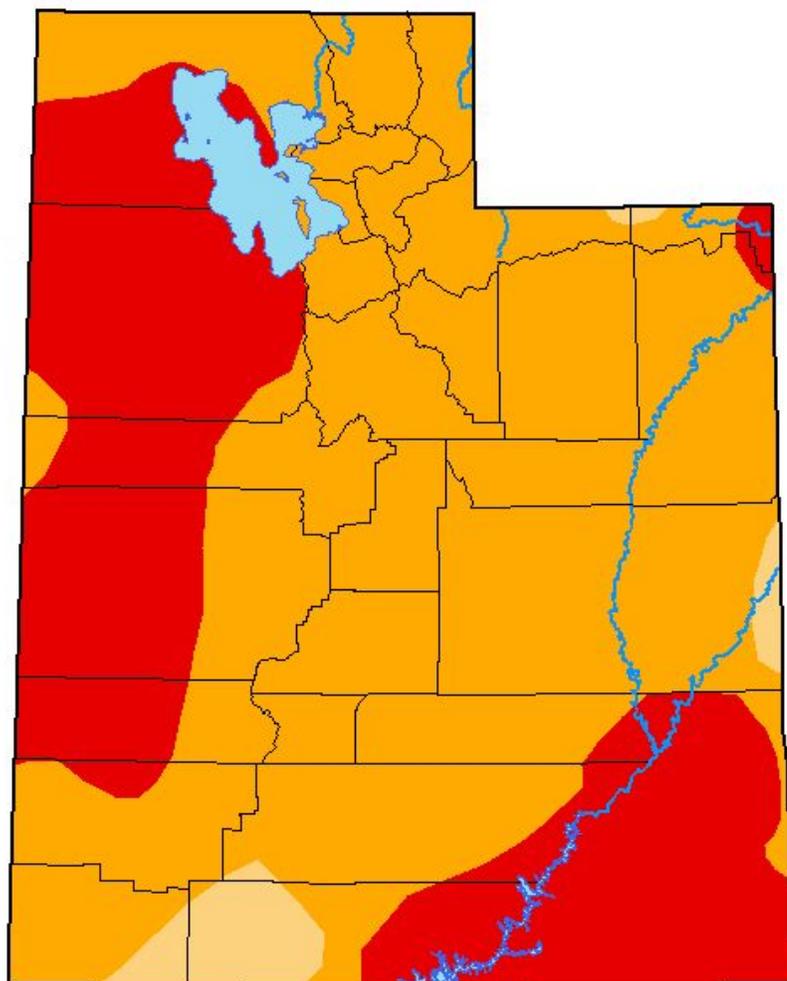


- Mean daily value 3/7/2022 = 4,191.1' (same as last meeting)
- 4,190.2' 10/18/2021 (new historic low)



U.S. Drought Monitor Utah

March 1, 2022
(Released Thursday, Mar. 3, 2022)
Valid 7 a.m. EST



Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

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U.S. Department of Agriculture



droughtmonitor.unl.edu